

Amendments to the Specification:

On page 70, please delete the paragraph reading "Expected mass: 18556 Da".

On page 70, immediately after the sequences at lines 1-3, insert as a new paragraph:

The above sequence appears in the sequencing listing as SEQ ID NO:5.

On page 70, please delete the first mass spectrogram (rectangular illustration) with labeled peaks 22-13, the table immediately below it, the text "observed mass: 18558 Da" and the arrow pointing to component A of the table, and the hand written text.

On page 70, before the paragraph beginning "ES-MS of ligation products", please insert the following new paragraphs:

Figure 13 is a mass spectrogram (SNJ45 +32 -270103.d:-MS, 3.8-7.1 min (#26-#50)) with the following labeled peaks: 22(A):842.5, 21(A):882.7, 20(A):927.0, 19(A):975.8, 18(A):1030.1, 17(A):1090.7, 16(A):1159.0, 15(A):1236.3, 14(A):1324.6, and 13(A):1426.5 m/z.

The expected mass of the ligation product SEQ ID NO:5 was 18556 Da, and the observed mass was 18558 Da, consistent with component A below:

Component	Deconvoluted Mass	Molecule	Absolute Abundance	Relative Abundance
A	18858.19	[M-H] ⁻	78231	100.00
B	18684.09	[M-H] ⁻	12988	16.60
C	18611.54	[M-H] ⁻	14139	18.07
D	18589.24	[M-H] ⁻	7388	9.44

On page 70, please delete the paragraph "Expected mass: 20778 Da".

Immediately after the second sequence on page 70, insert as a new paragraph:

The above sequence appears in the sequence listing as SEQ ID NO:6.

On page 70, please delete the second mass spectrogram (rectangular illustration) with labeled peaks 22, 20, and 19, the paragraph to the right ("Observed mass: 20780 Da"), and the table below it.

On page 70, before the paragraph beginning "ES-MS of the BB1, BB2," please insert the following new paragraphs:

Figure 14 is a mass spectrogram (SNJ-45+32+33-070203.d: -MS, 3.7-8.5 min (#22-#58)) with the following labeled peaks: 22(A):944.6, 20(B):1040.2, 19(A):1093.8, m/z.

The expected mass of SEQ ID NO:6 was 20778 Da and the observed mass was 20780 Da.

Component	Deconvoluted Mass	Molecule	Absolute Abundance	Relative Abundance
A	20802.20	[M-H] ⁻	212727	99.95
B	20823.97	[M-H] ⁻	212831	100.00
C	20845.40	[M-H] ⁻	162059	76.14
D	20780.56	[M-H] ⁻	130576	61.35

On page 71, please delete the paragraph "Expected mass: 22961 Da".

On page 71, immediately after the sequence, please insert the new paragraph:

The above sequence appears in the sequence listing as SEQ ID NO:7.

On page 71, please delete the mass spectrogram (rectangular illustration), the paragraph "Observed mass: 22963 Da", the arrow, and the table.

On page 71, before the paragraph beginning "ES-MS of B1....", please insert the following new paragraphs:

Figure 15 is a mass spectrogram (SNJ45+32+39+33-270103.d: -MS, 3.7-6.6 min (#26-#47)) with the following labeled peaks: 25(A):917.6, 24(A):955.9, 23(A):997.5, 21(A):1092.6, 20(A):1147.3, 17(A):1349.8, 16(A):1434.2, 15(A):1529.9 m/z.

The ligation product had an expected mass of 22961 Da and an observed mass of 22963 Da (see component A).

Component	Deconvoluted Mass	Molecule	Absolute Abundance	Relative Abundance
A	22963.79	[M-H] -	134448	100.00
B	23089.12	[M-H] -	21052	15.66
C	23015.05	[M-H] -	17048	12.68